

ABSTRACT OF THE DISCLOSURE

A process is provided for preparing an enantiopure 1,3-dioxolan-4-one or 1,3-oxathiolan-5-one derivative, which includes bringing a mixture containing enantiomeric 1,3-dioxolan-4-one or 1,3-oxathiolan-5-one derivatives and an enzyme with hydrolytic activity into contact in the presence of a nucleophile. Cleaving a dioxolanone/oxathiolanone ring of one enantiomer occurs by the enzyme with hydrolytic activity and, after the cleavage of one enantiomer has taken place, the uncleaved enantiomer of the 1,3-dioxolan-4-one or 1,3-oxathiolan-5-one derivative is isolated.